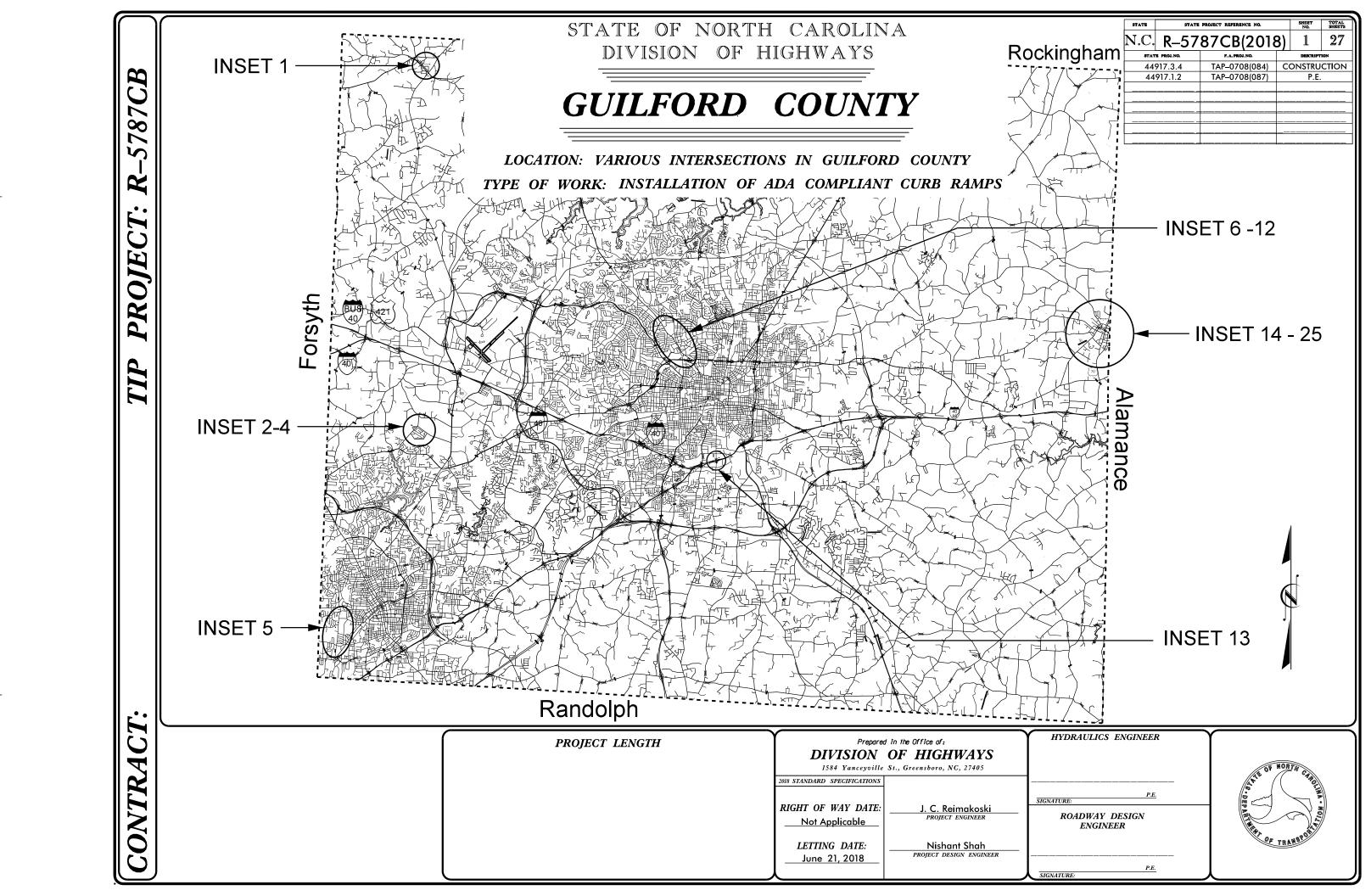
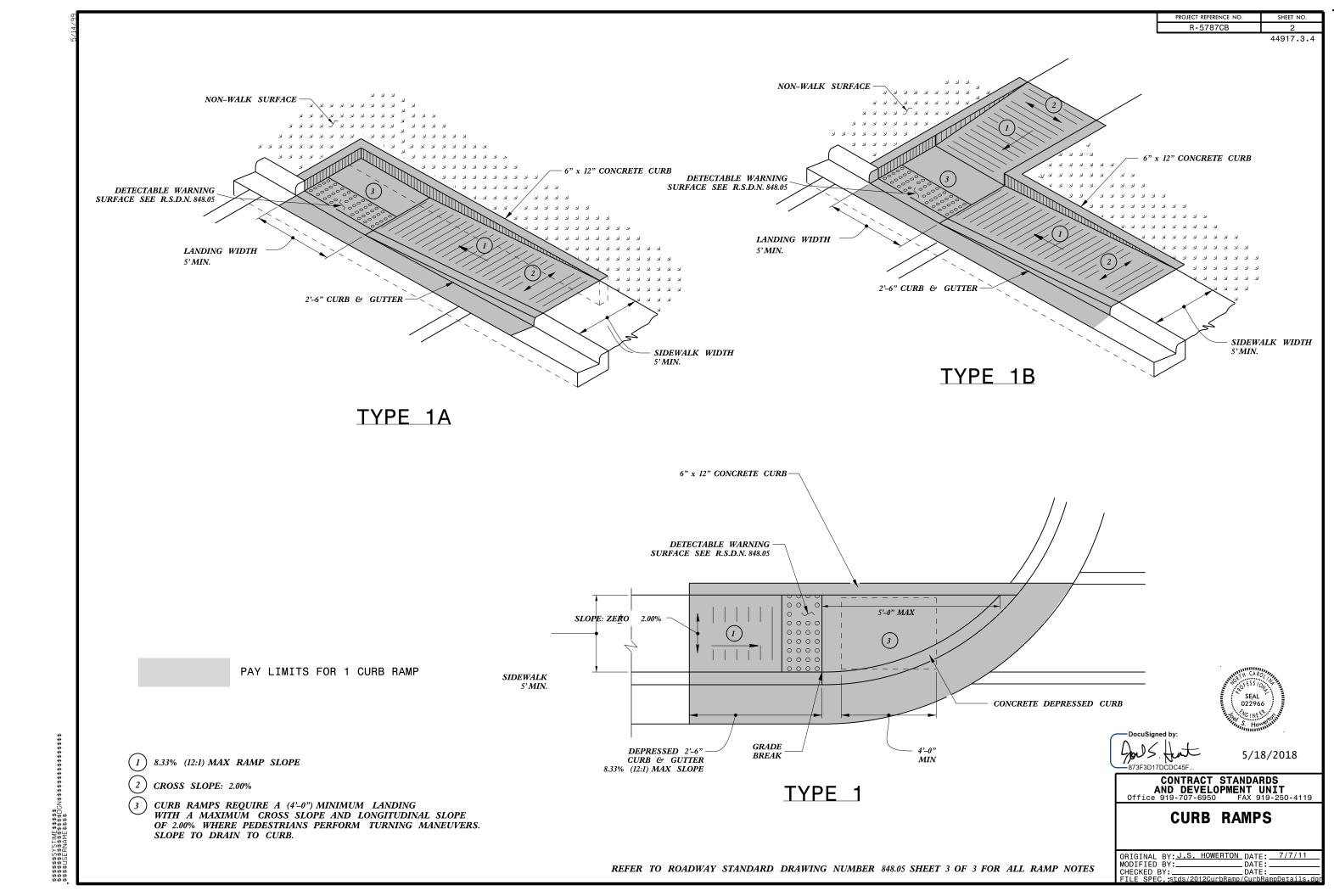
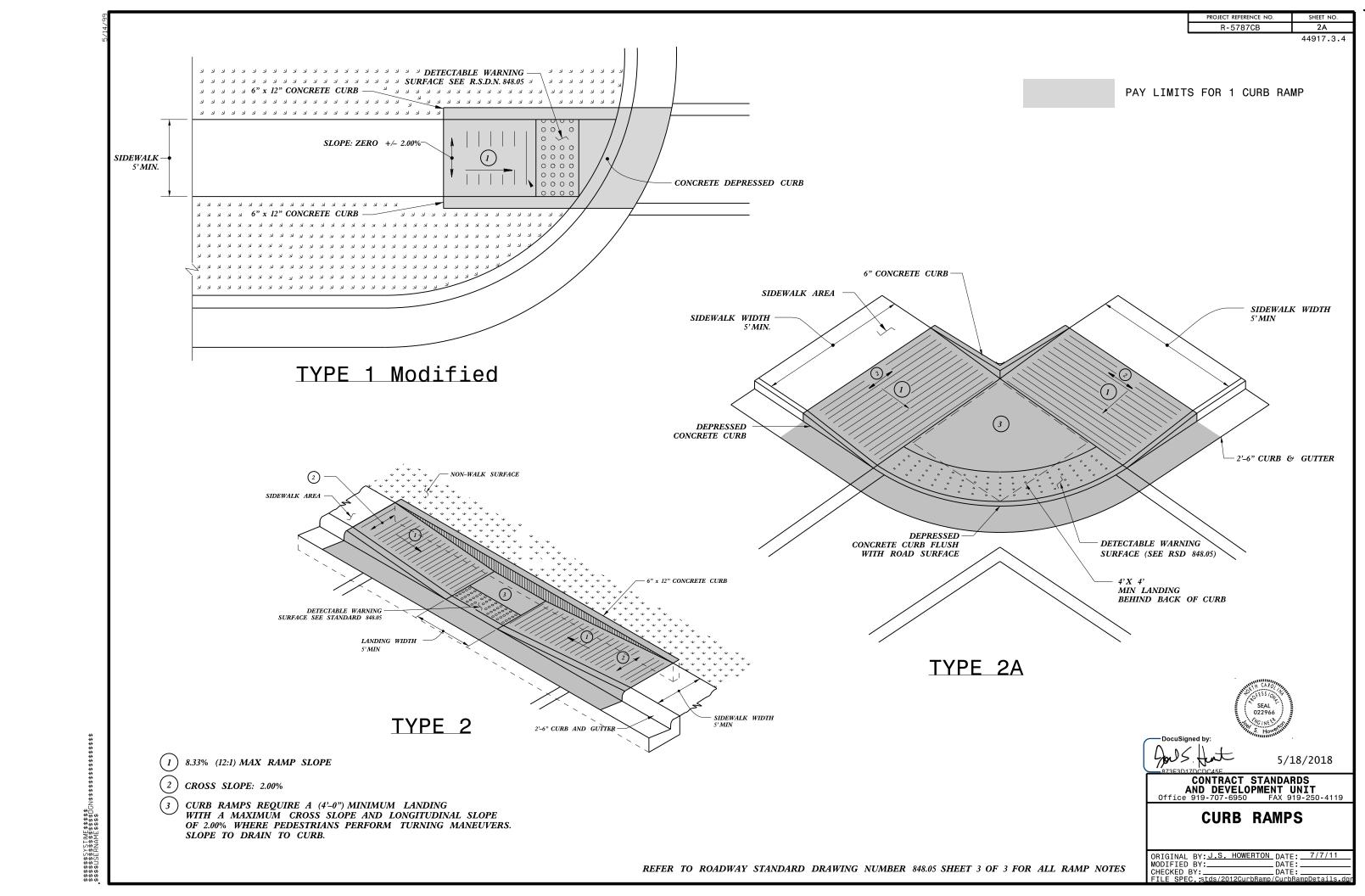
This electronic collection of documents is provided for the convenience of the user and is Not a Certified Document –

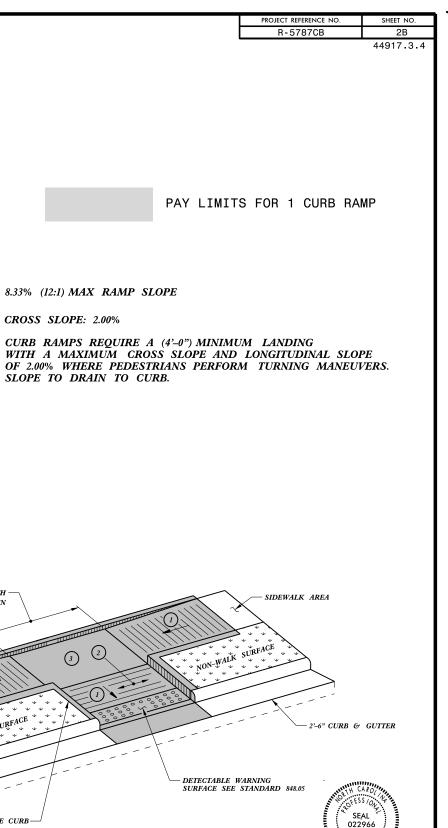
The documents contained herein were originally issued and sealed by the individuals whose names and license numbers appear on each page, on the dates appearing with their signature on that page.

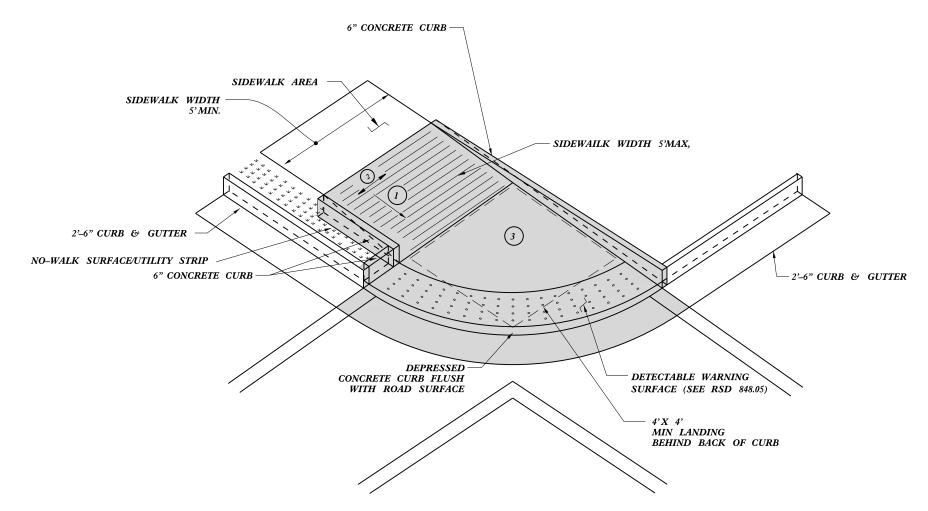
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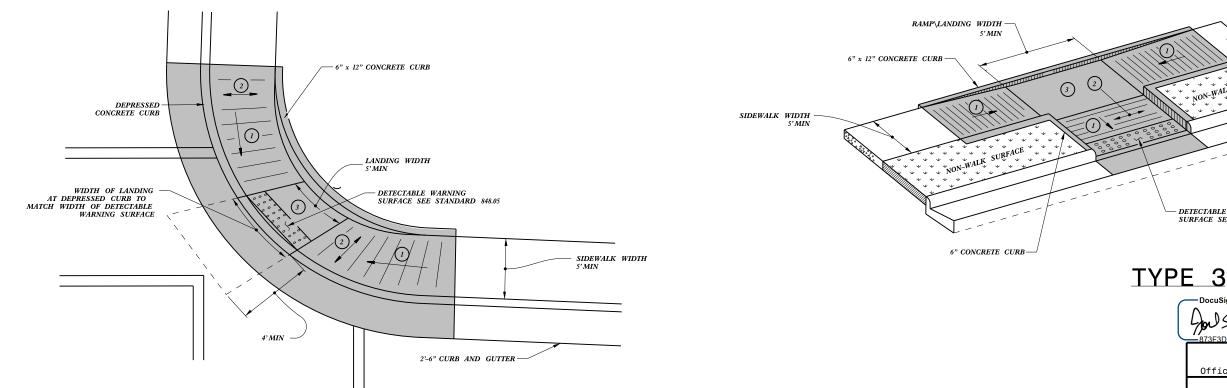
(1) 8.33% (12:1) MAX RAMP SLOPE

(2) CROSS SLOPE: 2.00%

CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS.

TYPE 2A MOD

TYPE 2B



REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
MODIFIED BY: DATE:

CONTRACT STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119

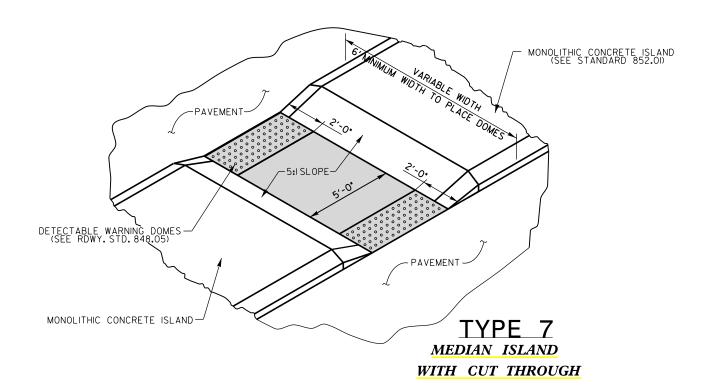
CURB RAMPS

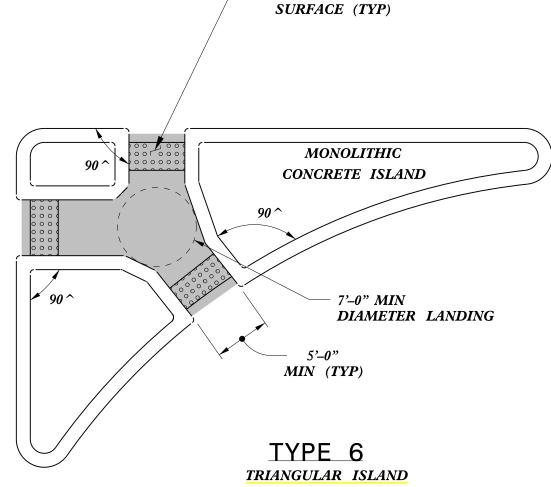
5/18/2018

R-5787CB

44917.3.4

PAY LIMITS FOR 1, 2 OR 3 CURB RAMPS (CALCULATE BASED ON NUMBER OF SETS OF TRUNCATED DOMES)

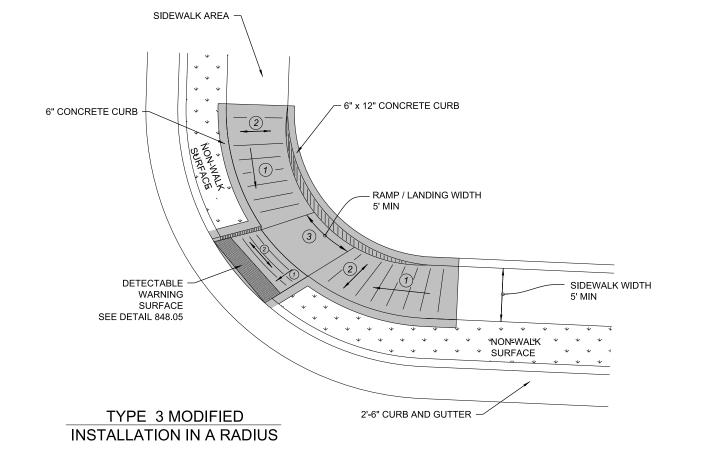




TRIANGULAR ISLANDS MAY BE CONSTRUCTED WITH ONLY 2 POINTS OF ENTRY AND EXIT AS SHOWN IN THE ROADWAY PLANS OR AS DIRECTED BY THE ENGINEER.

WITH CUT THROUGH

DETECTABLE WARNING



8.33% (12:1) MAX RAMP SLOPE

(2) CROSS SLOPE: 2.00%

CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

5/18/2018

CONTRACT STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119

CURB RAMPS

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11
MODIFIED BY: DATE:

| PROJECT NO. | SHEET NO. |
|--------------------|-----------|
| R-5787C ///017 3 / | 3 |

SUMMARY OF QUANTITIES

| | SUMMARY OF QUANTITIES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|-----------------------|----------|----------------------------|---|---|-----------------------|---------------------|----------------------|---|---|--|---|--|--|--|--|--|--|---|---|--|---|------------------------|-------------------------|--------------------------|--------------------------------|-----------------|----------------------|-----------------|--------------------|--|
| PROJECT NO | COUNTY | MAP NO | ROUTE | DESCRIPTION | GENERIC GRADING ITEM (REMOVE EXISTING CONCRETE) | AC PLANT MIX (REPAIR) | 2'-6" CURB & GUTTER | 4" CONCRETE SIDEWALK | GENERIC PAVING ITEM (REMOVE BRICK PAVERS) | GENERIC PAVING ITEM (INSTALL TOWN STANDARD BRICK PAVERS) | RETROFITTING EXISTING WHEELCHAIR RAMPS | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP - TYPE 1) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP - TYPE 1 MOD.) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP - TYPE 1A) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP - TYPE 1B) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP - TYPE 2A) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP - TYPE 2A MOD) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP - TYPE 2B) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP - TYPE 3) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CURB RAMP, TYPE 3 MOD) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP, TYPE 6) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP - TYPE 7) | 4" X 90 M WHITE THERMO | 8" X 120 M WHITE THERMO | 24" X 120 M WHITE THERMO | THERMO 24"YIELD LINE (90 MILS) | 8" LINE REMOVAL | TEMPORARY SILT FENCE | WATTLE | SEEDING & MULCHING | JUNCTION BOX (PULL BOX, OVERSIZED, HEAVY DUTY) |
| 0.570700 | 0.115 | | 110.150 | AT 50 005 ((0.111) 10 05T) | SY | TONS | LF | SY | SF | SF | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | LF | LF | LF | EA | LF | LF | LF | AC | EA |
| R-5787CB 44917.3.4 | Guilford | 1 | US 158 | AT SR 2054 (SHILLING ST.) QUADRANT 1 | | | | | 10 | 10 | | | | | | 1 | | | | | | | | | | | | 24 | 12 | 0.02 | |
| | | | | QUADRANT 2 | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| 0.570760 | | | R INSET NO. 1 | AT 5 14 5 014 5 00 5 14 04 15 | | | | | 10 | 10 | | 1 | | | | 1 | | | | | | | | 40 | 70 | 0 | | 24 | 12 | 0.02 | |
| R-5787CB 44917.3.4 | Guilford | 2 | SOUTHWEST SCHOOL RD. | AT S.W. GUILFORD HIGH SCHOOL QUADRANT 1 | 9 | | | 9 | | | 1 | | | | | | | | | | | | 55 | 40 | 70 | 8 | | 24 | 12 | 0.02 | |
| 44517.5.4 | | | | QUADRANT 4 | | | | 5 | | | 1 | | | + | | | | | | | | | | | | | | | | | |
| | то | TAL FOR | R INSET NO. 2 | | 9 | | | 9 | | | 2 | | | | | | | | | | | | 55 | 40 | 70 | 8 | | 24 | 12 | 0.02 | |
| R-5787CB | Guilford | 3 | SOUTHWEST SCHOOL RD | AT S.W. GUILFORD MIDDLE | | | | | | | | | | <u> </u> | | | | | | | | | 55 | 25 | 60 | 8 | | 24 | 12 | 0.02 | |
| 44917.3.4 | | | | QUADRANT 1 QUADRANT 4 | 9 | | | 9 | | | 1 | | | | | | | | | | | | | | | | | | | | |
| | ТО | OTAL FOR | R INSET NO. 3 | QUADRAINT 4 | 18 | | | 18 | | | 1 2 | | | | | | | | | | | | 55 | 25 | 60 | 8 | | 24 | 12 | 0.02 | |
| R-5787CB | | | | AT S.W. GUILFORD ELEMENTARY | | | | | | | | | | | , | | | | | | | | | | 90 | 12 | | 24 | 12 | 0.02 | |
| 44917.3.4 | | | | QUADRANT 1 | 6 | | | 6 | | | 1 | | | | | | | | | | | | | | | | | | | | |
| | <u> </u> | | | QUADRANT 2 | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| R-5787CB | | | NC 68 (WESTCHESTER DR.) | AT WESTCHESTER COMMONS | 6 | | | 6 | | | 1 | | | 1 | | | | | | | | | | | 90 | 12 | | 24 24 | 12 12 | 0.02 0.02 | |
| 44917.3.4 | Guilloru | 3 | NC 68 (WESTCHESTER DR.) | QUADRANT 1 | | | | | | | | | 1 | + | , | | | | | | | | | | | | | 24 | 12 | 0.02 | |
| 113271311 | | | | QUADRANT 2 | | | | | | | | | 1 | † | , | | | | | | | | | | | | | | | | |
| | то | TAL FOR | R INSET NO. 5 | | | | | | | | | | 2 | | | | | | | | | | | | | | | 24 | 12 | 0.02 | |
| R-5787CB | Guilford | 6 | US 220 (BATTLEGROUND AVE.) | AT N. ELAM AVE. | | | | | | | | | | <u> </u> | | | | | | | | | | | | | | 24 | 12 | 0.02 | |
| 44917.3.4 | | + | | QUADRANT 3 QUADRANT 4 | | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | | | |
| | | | | QUADRANT 5 | | 1 | 6 | | | | | | | 1 | | | | | | | | 2 | | | | | | | | | |
| | ТО | TAL FOR | R INSET NO. 6 | Q21.21.21.2 | | 1 | 6 | | | | | 1 | | 1 | | | | | | | | 2 | | | | | | 24 | 12 | 0.02 | |
| R-5787CB | Guilford | 7 | US 220 (BATTLEGROUND AVE.) | AT MARKLAND DR. | | | | | | | | | | <u> </u> | | | | | | | | | | | | | | 24 | 12 | 0.02 | |
| 44917.3.4 | | | | QUADRANT 2 | | | | | | | | | | 1 | ,—— | | | | | | | | | | | | | | | ,—— | |
| | | + | | QUADRANT 3 QUADRANT 4 | | 1 | 5 | 5 | | | | | | 1 1 | | | | | | | 1 | | | | | | | | | | |
| | то | TAL FOR | R INSET NO. 7 | QO/ISTOUT! | | 1 | 5 | 5 | | | | | | 3 | | | | | | | | | | | | | | 24 | 12 | 0.02 | |
| R-5787CB | Guilford | 8 | US 220 (BATTLEGROUND AVE.) | AT FERNWOOD DR. | | | | | | | | | | | | | | | | | | | | | | | | 24 | 12 | 0.02 | |
| 44917.3.4 | | + | | QUADRANT 3 | 5 | | | | | | | 1 | | ' | | | | | | | | | | | | ļ | | | | ,—— | |
| | TO | TAL FOR | R INSET NO. 8 | QUADRANT 4 | 5 10 | | | | | | | 1 2 | | | | | | | | | | | | | | | | 24 | 12 | 0.02 | |
| R-5787CB | Guilford | | | AT FORTUNE LN. | 10 | | | | | | | | | | | | | | | | | | | | | | | 24 | 12 | 0.02 | |
| 44917.3.4 | | | | QUADRANT 3 | 5 | | | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| | | | | QUADRANT 4 | 5 | | | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| D 570705 | | | R INSET NO. 9 | AT ALDRICUT DO | 10 | | | | | | | 2 | | | | | | | | | | | | | | | | 24 | 12 | 0.02 | |
| R-5787CB 44917.3.4 | Guilford | 10 | US 220 (BATTLEGROUND AVE.) | AT ALBRIGHT DR. QUADRANT 3 | 5 | | | | | | | | 1 | + | | | | | | | | | | | | | | 24 | 12 | 0.02 | |
| 77317.3.4 | | + | | QUADRANT 4 | 5 | | | | | | | 1 | | + | | | | | | | | | | | | | | | | | |
| | | | INSET NO. 10 | | 10 | | | | | | | 1 | 1 | | | | | | | | | | | | | | | 24 | 12 | 0.02 | |
| R-5787CB | Guilford | 11 | US 220 (BATTLEGROUND AVE.) | AT CORNWALLIS DR. | | | | | | | | | | ↓ | | | | | | | 1 | | | | | | 400 | 24 | 12 | 0.02 | |
| 44917.3.4 | | + | | QUADRANT 1 QUADRANT 3 | | | | | | | | | 1 | ' | | | | 1 | | | | | | | | <u> </u> | | | | | |
| | TO. | TAL FOR | R INSET NO. 11 | QUADRANT 3 | | | | | | | | | 1 | | | | | 1 1 | | | | | | | | | 400 | 24 | 12 | 0.02 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| PROJECT NO. | SHEET NO. |
|-------------------|-----------|
| R-5787C 44917.3.4 | 3A |
| | |

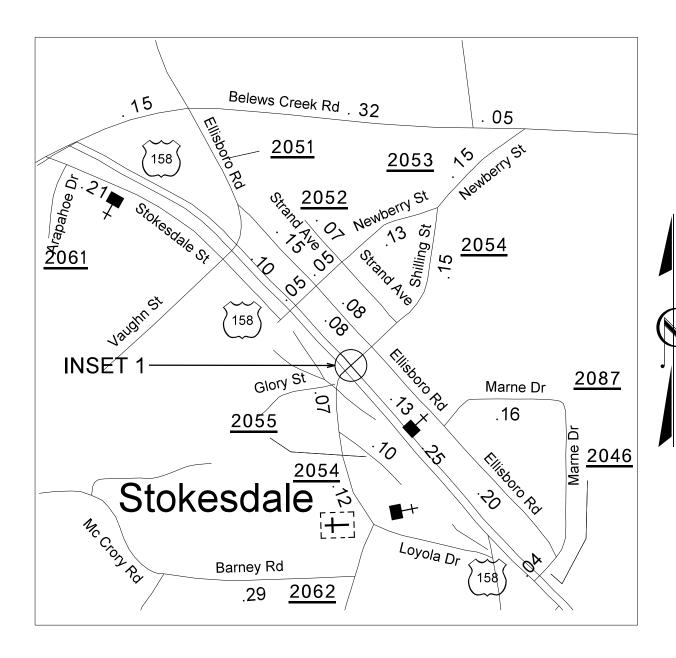
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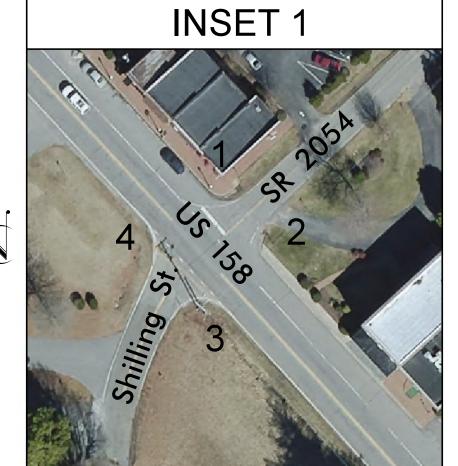
| | | | | | | | | | | S١ | JMN | 1 A R | Y O | F Q | U A N | TITI | IES | | | | | | | | | | | | | | |
|-----------------------|----------|-----------|------------------------------------|--------------------------------------|--|-----------------------|---------------------|--|--|---|--|--|--|---|---|--|--|---|--|---|---|---|------------------------|-------------------------|-------------------------|--------------------------------|-----------------|----------------------|-----------------|--|--|
| PROJECT NO | COUNTY | MAP NO | ROUTE | DESCRIPTION | GENERIC GRADING ITEM (REMOVE EXISTING CONCRETE) | AC PLANT MIX (REPAIR) | 2'-6" CURB & GUTTER | 4" CONCRETE SIDEWALK | GENERIC PAVING ITEM (REMOVE BRICK PAVERS) | GENERIC PAVING ITEM (INSTALL TOWN STANDARD BRICK PAVERS) | RETROFITTING EXISTING WHEELCHAIR RAMPS | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP - TYPE 1) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP - TYPE 1 MOD.) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP - TYPE 1A) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP - TYPE 1B) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP - TYPE 2A) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP - TYPE 2A MOD) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP - TYPE 2B) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP - TYPE 3) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CURB RAMP, TYPE 3 MOD) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP, TYPE 6) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP - TYPE 7) | 4" X 90 M WHITE THERMO | 8" X 120 M WHITE THERMO | 24" X 120 M WHTE THERMO | THERMO 24"YIELD LINE (90 MILS) | 8" LINE REMOVAL | TEMPORARY SILT FENCE | WATTLE | SEEDING & MULCHING | JUNCTION BOX (PULL BOX, OVERSIZED, HEAVY DUTY) |
| R-5787CB | Guilford | 12 | US 220 (BATTLEGROUND AVE.) | AT GREEN VALLEY RD. | SY | TONS | LF | SY | SF | SF | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | LF | LF | LF | EA | LF | LF | LF 12 | AC | EA |
| 44917.3.4 | dullioru | 12 | 03 220 (DATTEEGROOND AVE.) | QUADRANT 1 | | | | | | | | | | | | | | 1 | | 1 | | | | | | | | | 12 | | |
| | | | | QUADRANT 2 | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | 1.00 |
| | ТО | TAL FOR | R MAP NO. 12 | | | | | | | | | | | | | | | 2 | | | | | | | | | | | 12 | 0.00 | 1 |
| R-5787CB | Guilford | 13 | S. ELM-EUGENE ST. | AT I-40W/85S/US-70 OFF RAMP | | | | | | | | | | | | | | | | | | | | | | | | 24 | 12 | 0.02 | 1 |
| 44917.3.4 | Gamera | 15 | 3. ELIN EUGENEUN | QUADRANT 1 | | | | 28 | | | | | | 1 | | | | | | | | | | | | | | | | | |
| | | | | QUADRANT 2 | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| | | | | QUADRANT 3 | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | \vdash |
| | | | | QUADRANT 4 QUADRANT 5 | | | | | | | | | 1 | | | | | | | - | 2 | | | | | | | | | | \vdash |
| | | + | | QUADRANT 6 | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | |
| | TO | TAL FOR | INSET NO. 13 | | | | | 28 | | | | 1 | 1 | 2 | | | | | | | 4 | | | | | | | 24 | 12 | 0.02 | |
| R-5787CB | Guilford | 14 | NC 61 (CHURCH ST.) | AT BOONWOOD DR. | | | | | | | | | | | | | | | | | | | | | | | | 24 | 12 | | |
| 44917.3.4 | | | | QUADRANT 1 | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| | TO: | TAL FOR | INSET NO. 14 | QUADRANT 2 | | | | | | | | 1 | | | | | | 1 1 | | | | | | | | | | 24 | 12 | 0.02 | |
| R-5787CB | | | NC 61 (CHURCH ST.) | AT COBB ST. | | | | | | | | 1 | | | | | | 1 | | | | | | | | | | 24 | 12 | 0.02 | |
| 44917.3.4 | Gamora | 13 | no or (enement on) | QUADRANT 2 | | | | | | | | | | | | | | | 1 | | | | | | | | | | | - 0.02 | |
| | | | | QUADRANT 3 | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | i |
| | | | | QUADRANT 4 | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| D 5707CD | 1 | | INSET NO. 15 NC 61 (CHURCH ST.) | AT F LOVALED CT | | | | | | | | | 1 | | | | 1 | | 1 | | | | | | | | | 24 | 12 12 | 0.02 0.02 | |
| R-5787CB 44917.3.4 | Guillora | 10 | NC 61 (CHURCH S1.) | AT E. JOYNER ST QUADRANT 1 | | | | | | | | | | | | | | 1 | | 1 | | | | | | | | 24 | 12 | 0.02 | |
| 44517.5.4 | | | | QUADRANT 2 | | | | | | | | | | | | | 1 | - | | - | | | | | | | | | | , | |
| | | | | QUADRANT 3 | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| | | | | QUADRANT 4 | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| R-5787CB | TO: | TAL FOR | INSET NO. 16 | AT N. MULARTON AVE | | | | | | | | | | | | | 3 | 1 | | 1 | | | | 75 | | | 150 | 24 | | 0.02 | |
| 44917.3.4 | Guillord | 1/ | NC 61 (CHURCH ST.) | AT N. WHARTON AVE. QUADRANT 1 | | + | | | | | | | | | | | | | | 1 | 1 | | | 75 | | 1 | 150 | 24 | 12 | | |
| 517.5.4 | | 1 | | QUADRANT 2 | | | | | | | | | | 1 | | | | | | <u> </u> | | | | | | | | | | , — — — — — | |
| | | | | QUADRANT 3 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | INSET NO. 17 | | 5 | | | | | | | | | 1 | | | | | | 1 | | | | 75 | | | 150 | | | 0.02 | |
| R-5787CB 44917.3.4 | Guilford | 18 | NC 61 (CHURCH ST.) | AT LITTLE AVE/EUGENE ST. QUADRANT 1 | 1 | 1 | | | 1 | | | - | | | | | 1 | | 1 | 1 | 1 | | | | | 1 | | 24 | 12 | 0.02 | \vdash |
| 4491/.3.4 | | + + | | QUADRANT 1 QUADRANT 2 | 1 | + | | - | - | | | | - | | - | 1 | - | | 1 | 1 | | | | | | | | - | | \longrightarrow | \vdash |
| | | \dagger | | QUADRANT 3 | <u> </u> | 1 | | <u> </u> | <u> </u> | | | 1 | <u> </u> | 1 | <u> </u> | | 1 | | | 1 | | | | | i . | | | <u> </u> | | , | $\overline{}$ |
| | | | | QUADRANT 4 | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | |
| | | | INSET NO. 18 | AT NO 100 / | | | | | | | | | | | | 2 | 1 | | | 1 | | | | | | | | 24 | | 0.02 | |
| R-5787CB 44917.3.4 | Guilford | 19 | NC 61 (N. WHARTON AVE.) | AT NC 100 (W. MAIN ST.) QUADRANT 1 | - | 1 | 1 | 1 | - | - | 1 | 1 | | | | | - | - | 1 | + | | | | | | | 1 | 1 | 12 | | \vdash |
| 44717.3.4 | | 1 | | QUADRANT 1 QUADRANT 4 | | + | | | | | 1 | 1 | | | | | | | 1 | + | | | | | | | | † | | | $\overline{}$ |
| | TO | TAL FOR | INSET NO. 19 | | | | | | | | 1 | 1 | | | | | | | | | | | | | | | | | 12 | 0.00 | |
| R-5787CB | | | | AT NC 100 (W. MAIN ST.) | | | | | | | | | | | | | | | | | | | | | | | | 24 | 12 | | |
| 44917.3.4 | | | | QUADRANT 3 | ļ | 1 | | ļ | ļ | | | 1 | ļ | | ļ | | ļ | | ļ | 1 | 1 | | | | | | | ļ | | | \longleftarrow |
| | TO | TAL FOR | INSET NO. 20 | QUADRANT 4 | | | | | | | | 1 | | 1 1 | | | | | | | | | | | | | | 24 | 12 | 0.02 | |
| R-5787CB | | | NC 100/NC 61 (WHITSETT AVE.) | AT MADKINS ST | | | | | | | | 1 | | 1 | | | | | | | | | | | | | | 24 | | 0.02 | |
| 44917.3.4 | 347014 | | | QUADRANT 3 | | | | | | 1 | | 1 | | | | | | 1 | | | | | | | | | | | | | $\overline{}$ |
| | | | | QUADRANT 4 | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| | TO | TAL FOR | INSET NO. 21 | | | | | | | | | 2 | | | | | | | | | | | | | | | | 24 | 12 | 0.02 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | PROJECT NO 787C 44917 | | SHEET NO. |
|-----------------------|-----------------------|---------|------------------------------|-----------------------------|---|-----------------------|---------------------|----------------------|---|---|--|---|--|--|--|--|--|--|---|---|--|---|------------------------|-------------------------|--------------------------|--------------------------------|-----------------|----------------------|--------------------------|--------------------|--|
| | SUMMARY OF QUANTITIES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT NO | COUNTY | MAP NO | ROUTE | DESCRIPTION | GENERIC GRADING ITEM (REMOVE EXISTING CONCRETE) | AC PLANT MIX (REPAIR) | 2'-6" CURB & GUTTER | 4" CONCRETE SIDEWALK | GENERIC PAVING ITEM (REMOVE BRICK PAVERS) | GENERIC PAVING ITEM (INSTALL TOWN STANDARD BRICK PAVERS) | RETROFITTING EXISTING WHEELCHAIR RAMPS | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP - TYPE 1) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP - TYPE 1 MOD.) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP - TYPE 1A) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP - TYPE 1B) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP - TYPE 2A) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP - TYPE 2A MOD) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP - TYPE 2B) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP - TYPE 3) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CURB RAMP, TYPE 3 MOD) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP, TYPE 6) | GENERIC PAVING ITEM - (REMOVE AND REPLACE CONCRETE CURB RAMP - TYPE 7) | 4" X 90 M WHITE THERMO | 8" X 120 M WHITE THERMO | 24" X 120 M WHITE THERMO | THERMO 24"YIELD LINE (90 MILS) | 8" LINE REMOVAL | TEMPORARY SILT FENCE | WATTLE | SEEDING & MULCHING | JUNCTION BOX (PULL BOX, OVERSIZED, HEAVY DUTY) |
| | 0 116 1 | | NO 400 (NO 54 (NUMEROS AND N | AT A 400 M 50 LA ST | SY | TONS | LF | SY | SF | SF | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | LF | LF | LF | EA | LF | LF | LF | AC | EA |
| R-5787CB 44917.3.4 | Guilford | 22 | NC 100/NC 61 (WHITSETT AVE.) | AT MINNEOLA ST. QUADRANT 2 | 9 | 0.50 | 10.00 | 9 | | | | | | | | | | 1 | | | | | | | | | | 24 | 12 | 0.02 | |
| 44917.5.4 | | + | | QUADRANT 3 | 6 | 0.50 | 5.00 | 6 | | | | | | | | | 1 | 1 | | | | | | | | | | | | | |
| | | | | QUADRANT 4 | 0 | 0.50 | 3.00 | 0 | | | | | | | 1 | | 1 | | | | | | | | | | | | | | |
| | TO | TAL FOR | R INSET NO. 22 | 2012121111 | 15 | 1 | 15 | 15 | | | | | | | 1 | | 1 | 1 | | | | | | | | | | 24 | 12 | 0.02 | |
| R-5787CB | | | NC 100/NC 61 (WHITSETT AVE.) | AT SR 2752 (BETHEL ST.) | | | | | | | | | | | | | | | | | | | | | | | | 24 | 12 | 0.02 | |
| 44917.3.4 | | | | QUADRANT 1 | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| | | | | QUADRANT 1 | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| | | | | QUADRANT 3 | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| | | | | QUADRANT 4 | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| | TO | TAL FOR | R INSET NO. 23 | | | | | | | | | | | | | | 4 | | | | | | | | | | | 24 | 12 | 0.02 | |
| R-5787CB | Guilford | 24 | NC 100 (BURLINGTON AVE.) | AT SR 2957 (PIEDMONT AVE.) | | | | | | | | | | | | | | | | | | | | | | | | | 12 | | 1 |
| 44917.3.4 | | | | QUADRANT 3 | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| | TO | TAL FOR | R INSET NO. 24 | | | | | | | | | | | | | | 1 | | | | | | | | | | | | 12 | 0.00 | |
| R-5787CB | Guilford | 25 | NC 100 (W. MAIN ST.) | AT LEWIS ST. | | | | | | | | | | | | | | | | | | | | | | | | | 12 | | |
| 44917.3.4 | | | | QUADRANT 1 | 4 | | | 4 | 10 | 10 | | | | | | 1 | | | | | | | | | | | | | | | |
| | | | | QUADRANT 4 | 4 | | | 4 | 10 | 10 | | | | | | 1 | | | | | | | | | | | | | | | |
| | | | | QUADRANT 5 | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| | TO | TAL FOR | R INSET NO. 25 | | 8 | | | 8 | 20 | 20 | 1 | | | | | 2 | | | | | | | | | | | | | 12 | 0.00 | |
| | TOTAL | FOR PR | ROJ NO. 44917.3.4 | | 91 | 3 | 26 | 89 | 30 | 30 | 7 | 13 | 6 | 9 | 1 | 5 | 11 | 6 | 1 | 3 | 4 | 2 | 110 | 140 | 220 | 28 | 550 | 504 | 300 | 0.42 | 1 |
| | ·OIAL | | | | | | | | 6 | i0 | | | | | | 6 | 8 | | | | | | | | | | | | | | |

PROJECT REFERENCE NO. SHEET NO. R-5787CB 4

2018 CURB RAMP CONTRACT - GUILFORD COUNTY R-5787CB





US 158 @ SR 2054 (SHILLING ST.) (INTERSECTION ID#A002)

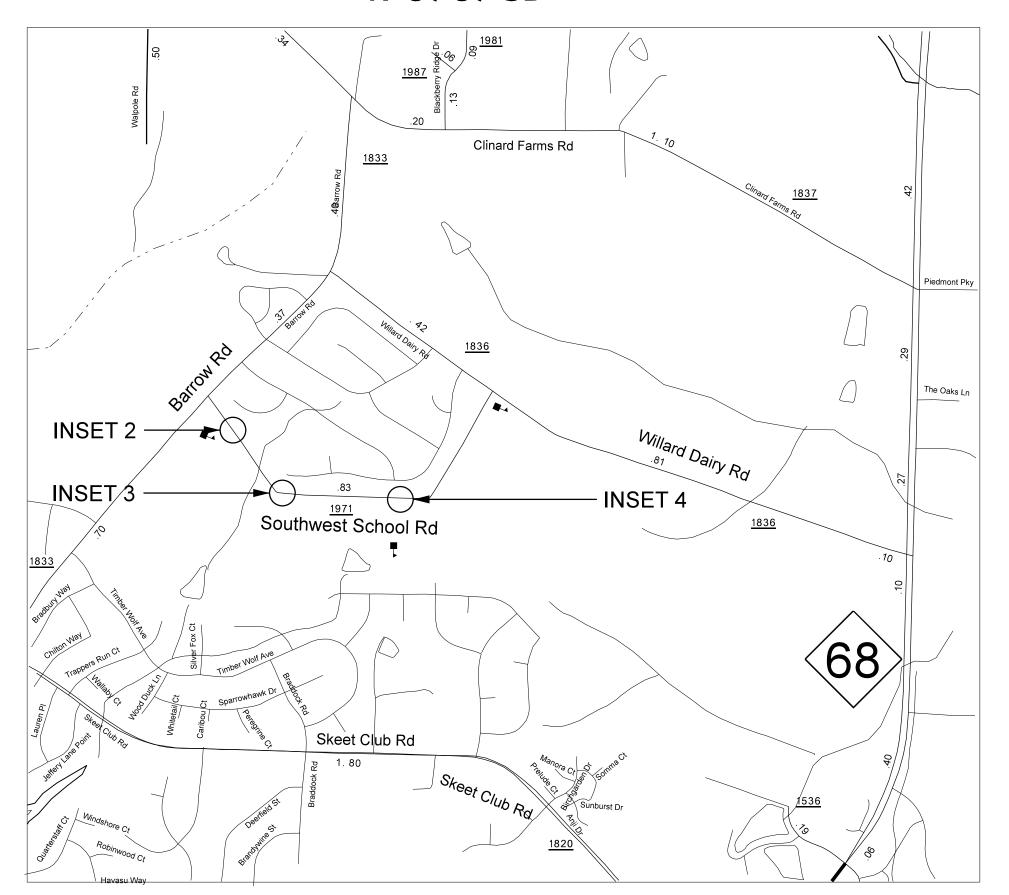
UPGRADE CR IN QUADRANTS 1 & 2

QUADRANT 1 MAY NEED TO BE REALIGNED TO QUADRANT 2.

MAY NEED SB RELOCATED.

PROJECT REFERENCE NO. R-5787CB

2018 CURB RAMP CONTRACT - GUILFORD COUNTY R-5787CB





2018 CURB RAMP CONTRACT - GUILFORD COUNTY R-5787CB

INSET 2



SR 1971 (SOUTHWEST SCHOOL RD.)

@ SOUTHWEST **GUILFORD HIGH** SCHOOL (BUS ENTRANCE)

UPGRADE CR IN QUADRANTS 1 & 4

REMOVE AND REPLACE 15' OF SIDEWALK IN Q1.

ADD EDGE LINES, GORELINES, YEILD TRIANGLES (SHARK TEETH) AND HIGH VIS. PED. CROSSING ACCORDING TO STANDARDS.

INSET 3



SR 1971 (SOUTHWEST SCHOOL RD.) @ SOUTHWEST GUILFORD MIDDLE SCHOOL (BUS **ENTRANCE**)

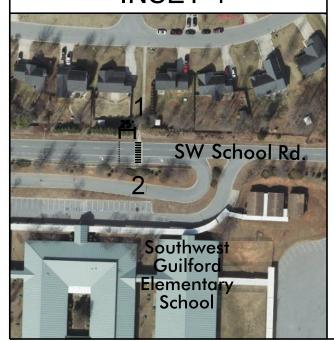
UPGRADE CR(S) IN QUADRANTS 1 & 4

Q1 & Q4 - REMOVE AND REPLACE 15' OF SIDEWALK, IN EACH QUADRANT.

RELIGN SIDEWALK AT Q4 TO MEET SIDEWALK AT

ADD EDGE LINE, GORE LINES, YEILD TRAINGLES (SHARK TEETH) AND HIGH VIS PED. CROSSING, ACCORDING TO STANDARDS.

INSET 4



SR 1971 (SOUTHWEST SCHOOL RD.) @ SOUTHWEST GUILFORD ELEMENTARY SCHOOL (DRIVEWAY # 1)

UPGRADE CR(S) IN QUADRANTS 1 & 2

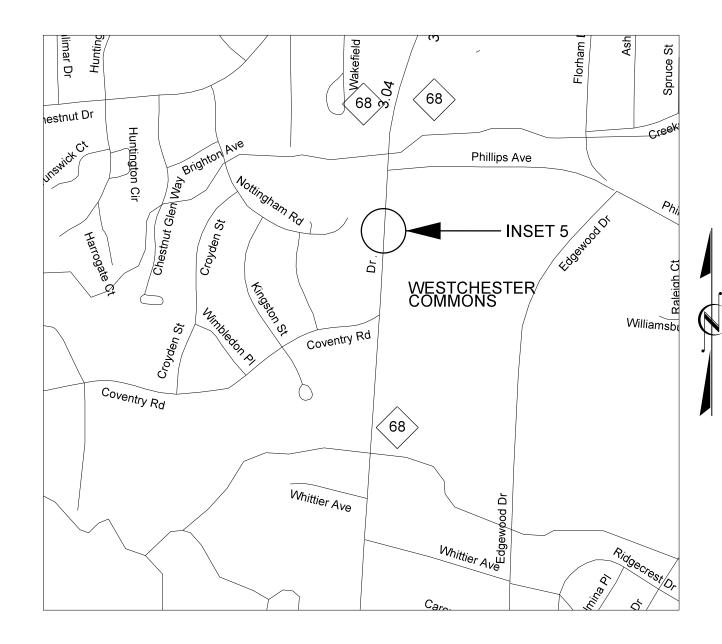
REMOVE AND REPLACE 10' OF SIDEWALK IN Q1.

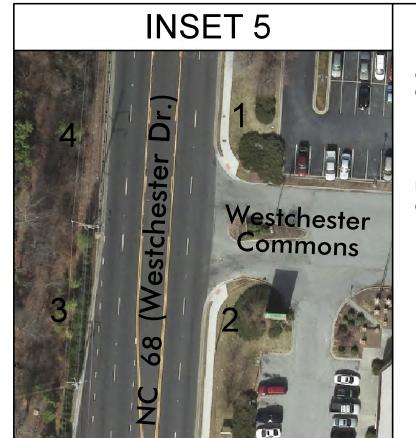
ADD HIGH VIS PED. CROSSING AND YIELD TRIANGLES (SHARK TEETH), ACCORDING TO STANDARDS.



PROJECT REFERENCE NO. R-5787CB

2018 CURB RAMP CONTRACT - GUILFORD COUNTY R-5787CB





NC 68 (WESTCHESTER DR.)

@ WESTCHESTER

COMMONS (HUTTON (INTERSECTION ID#C146)

UPGRADE CR(S) IN QUADRANTS 1 & 2

PROJECT REFERENCE NO R-5787CB 2018 CURB RAMP CONTRACT - GUILFORD COUNTY R-5787CB Brookside Dr Liberty Dr Liberty Dr INSET 6 Fernwood Dr INSET_{BI}Temont Dr 220 Quail Dr INSET 8 Markland Dr -INSET 9 Fernwood Dr -INSET 10 Fortune Ln Rosecrest Dr INSET 11 Albright Dr W Cornwallis Dr Branch Ct Sunset Dr Hiawatha Dr Enterprise Rd Cherokee Dr Banking St Lendew St Westover Ter Pembroke Rd INSET 12 Green Valley Rd INSET 13 220 W Wendover Ave M. .58 2254

44917.3.4

2018 CURB RAMP CONTRACT – GUILFORD COUNTY R-5787CB

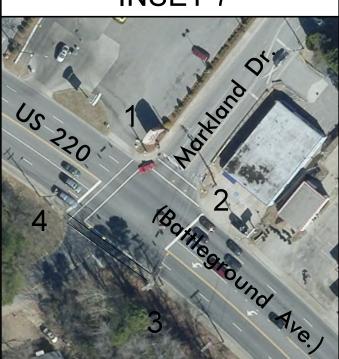


UPGRADE CR(S)IN QUADRANTS 3, 4 & 5.

MOVE EXISTING
MEDIAN CUT
THROUGH (TYPE 7) BY
3', TOWARDS US-220.
ALIGN RAMPS IN Q3
& Q4 TO MEET Q5,
AS ILLUSTRATED.



INSET 7



US 220 (BATTLEGROUND AVE.) @ MARKLAND DR. (INTERSECTION ID#B045)

UPGRADE CR(S) IN QUADRANTS 2, 3 & 4

MOVE Q4 RAMP AHEAD OF THE STOP BAR, TO WHERE THE PED SIGNAL IS LOCATED.

ALIGN RAMP IN Q1 TO MEET RAMP IN Q4.





US 220 (BATTLEGROUND AVE.) @ FERNWOOD DR. (INTERSECTION ID#B044)

UPGRADE CR IN QUADRANTS 3 & 4

ALIGN THE RAMPS, AS ILLUSTRATED, IN THE DRAWING.

INSET 9



US 220 (BATTLEGROUND AVE.) @ FORTUNE LN. (INTERSECTION ID#B043)

UPGRADE CR(S) IN QUADRANTS 3 & 4

ALIGN THE RAMPS, AS ILLUSTRATED, IN THE DRAWING.

6 pomyde\R-5787_IAP_Div7\Roadway\Proj\District 2\CONTRACT 2_R5787C_2018\R-5787CB-Guil *\$\$\$

-MAY-2018 13:36 \DDC\6-Divisionwide\R-5

2018 CURB RAMP CONTRACT - GUILFORD COUNTY R-5787CB

INSET 10

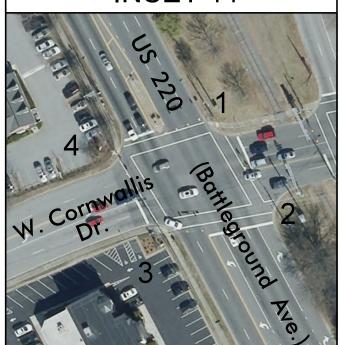


US 220 (BATTLEGROUND AVE.)

@ ALBRIGHT DR. (INTERSECTION ID#B042)

UPGRADE CR(S) IN QUADRANTS 3 & 4

INSET 11



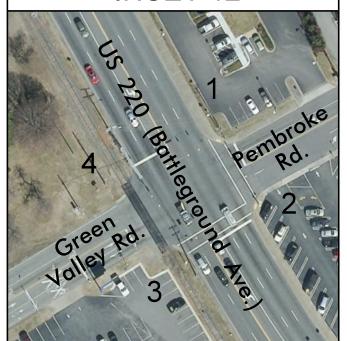
US 220 (BATTLEGROUND AVE.) @ CORNWALLIS DR. (INTERSECTION ID#B041)

UPGRADE CR IN QUADRANTS 1 & 3

-ASK TRAFFIC TO REMOVE CROSSING FROM Q1-Q2-Q3)

-ASK COG, TO RELOCATE FH IN **SIDEWALK**

INSET 12



US 220 (BATTLEGROUND AVE.)

@ GREEN VALLEY RD. (INTERSECTION ID#B038)

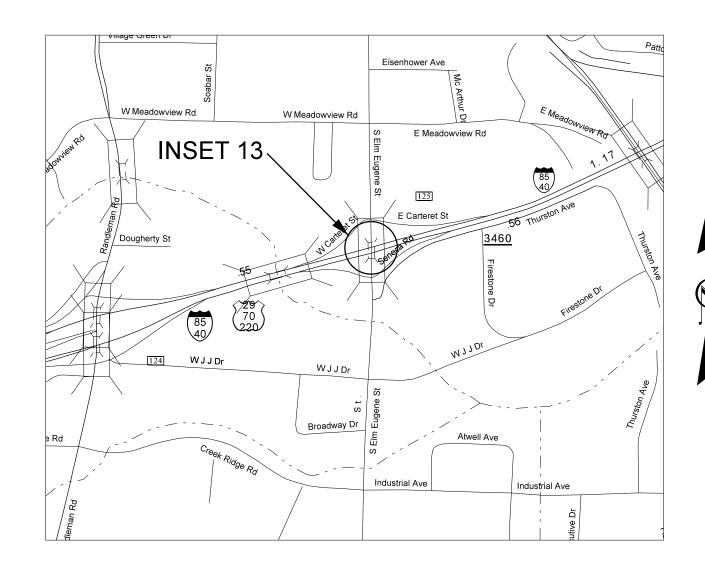
UPGRADE CR(S) IN QUADRANT 1 & 2

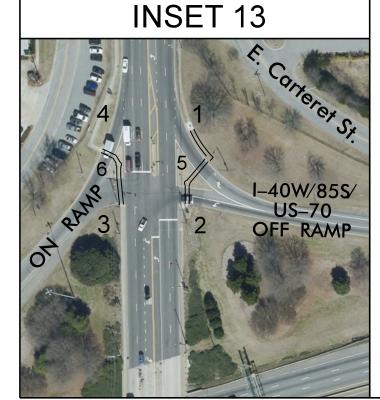
Q2 – OVERSIZED JB REQUIRED



R-5787CB

2018 CURB RAMP CONTRACT – GUILFORD COUNTY R-5787CB





SOUTH ELM-EUGENE ST @ I-40 /I-85 OFF RAMP.

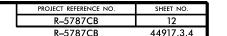
UPGRADE CR(S) IN QUADRANTS 1, 2 & 5.

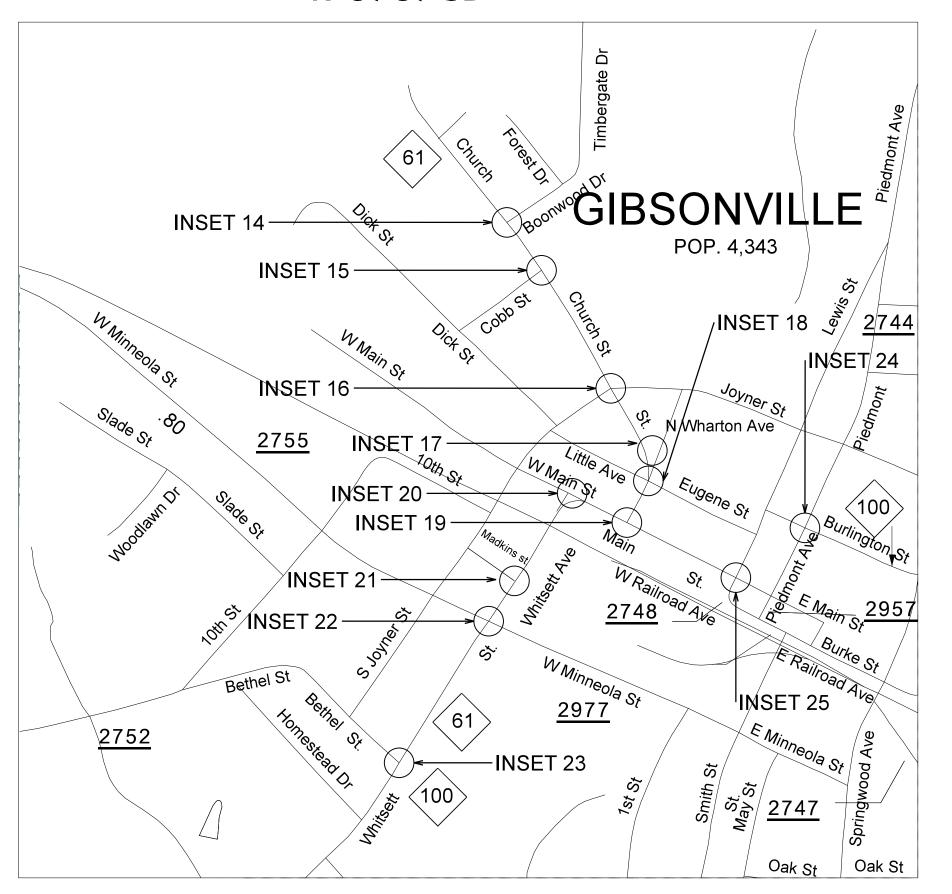
ADD 50' OF SIDEWALK AT Q1.

ALIGN Q2, Q5 & Q1, AS ILLUSTRATED

ALIGN Q3, Q6 AND Q4, AS ILLUSTRATED.

2018 CURB RAMP CONTRACT – GUILFORD COUNTY R-5787CB



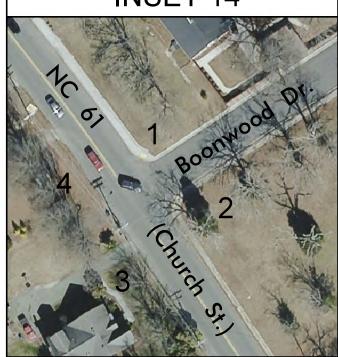




CB 13

2018 CURB RAMP CONTRACT – GUILFORD COUNTY R-5787CB

INSET 14



NC 61 (CHURCH ST.) @ BOONWOOD DR. (INTERSECTION ID#B002)

UPGRADE CR(S) IN QUADRANTS 1 & 2

(ALIGN WARNING PAD WITH DIRECTIONAL RAMP AT Q1)

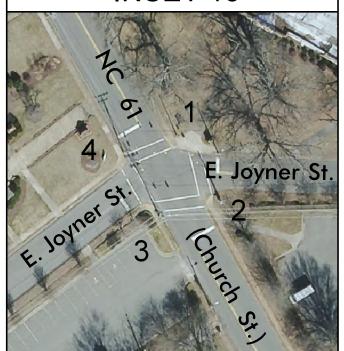
INSET 15



NC 61 (CHURCH ST.) @ COBB ST. (INTERSECTION ID#B003)

UPGRADE CR(S)IN QUADRANTS 2, 3 & 4

INSET 16



NC 61 (CHURCH ST.) @ E. JOYNER ST. (INTERSECTION ID#B004)

UPGRADE CR(S) IN QUADRANTS 1, 2, 3 & 4

Q1 – RAMP 1– TYPE 3 MOD FACING Q4 RAMP 2– TYPE 2B FACING Q2

Q3 & Q4 -MAKE RAMPS SYMMETRICAL TO ALLOW ACCESS FROM BOTH SIDES

INSET 17



NC 61 (CHURCH ST.) @ N. WHARTON AVE. (INTERSECTION ID#B005)

UPGRADE CR(S) IN QUADRANT 1, 2 & 3

ALIGN RAMP IN Q1 TO MEET RAMP IN Q2.

REMOVE EXISTING PED STRIPING AND PROVIDE NEW PED STRIPING FROM Q1 TO Q2, AS SHOWN.

2018 CURB RAMP CONTRACT - GUILFORD COUNTY R-5787CB

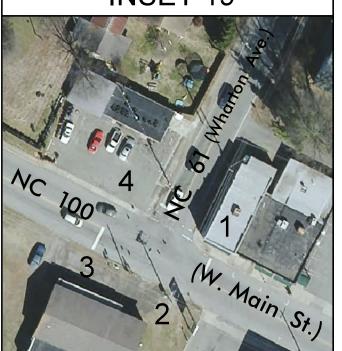
INSET 18



NC 61 (CHURCH ST.) @ LITTLE AVE.TO EUGENE ST. (INTERSECTION ID#B006)

UPGRADE CR(S) IN QUADRANTS 1 THROUGH 4.

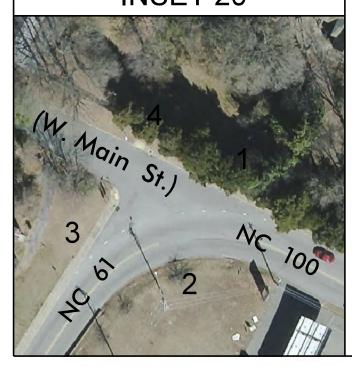
INSET 19



NC 61 (N. WHARTON AVE.) @ NC 100 (W. MAIN ST.)
(INTERSECTION ID#B007)

UPGRADE CR(S) IN QUADRANTS 1 & 4

INSET 20



NC 61 (WHITSETT AVE.)

© NC 100
(W. MAIN ST.)
(INTERSECTION ID#B007A)

UPGRADE CR IN QUADRANTS 3 & 4

INSET 21



NC 100 (Whitsett Ave.)

@ Madkins St.
(Intersection ID#A010)

UPGRADE CR(S) IN QUADRANTS 3 & 4

2018 CURB RAMP CONTRACT - GUILFORD COUNTY R-5787CB

INSET 22



NC 100 (WHITSETT AVE.) @ W. MINNEOLA ST. (INTERSECTION ÎD#A009)

UPGRADE CR(S) IN QUADRANTS 2, 3 & 4

INSET 23

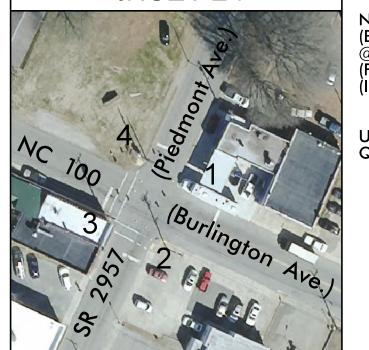


NC 100 (WHITSETT AVE.)

© SR 2752 (BETHEL ST.) (INTERSECTION ID#A008)

UPGRADE CR(S) IN QUADRANTS 1 – 4

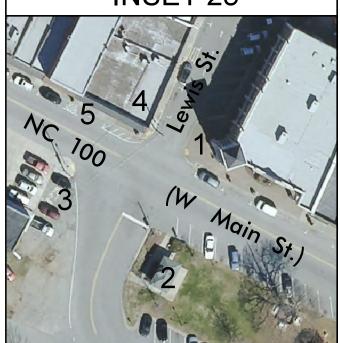
INSET 24



NC 100 (BURLINGTON AVE.) @ SR 2957 (PIEDMONT AVE.) (INTERSECTION ID#A015)

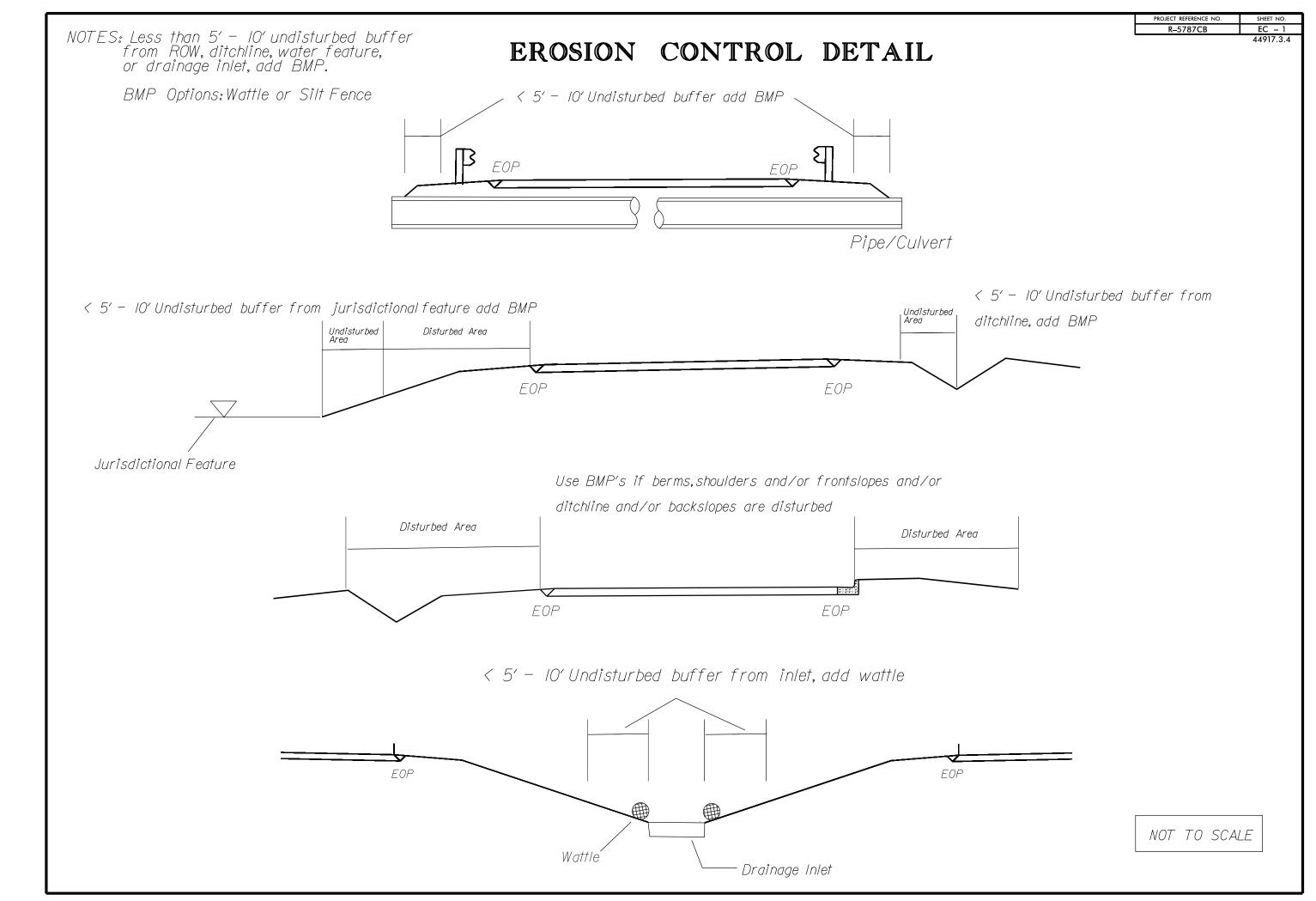
UPGRADE CR IN QUADRANT 3

INSET 25



NC 100 (W MAIN ST.)
@ LEWIS ST.
(INTERSECTION
ID#A013)

UPGRADE CR(S) IN QUADRANTS 1, 4 & 5



PROJECT REFERENCE NO. SHEET NO.

R-5787CB EC - 2

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

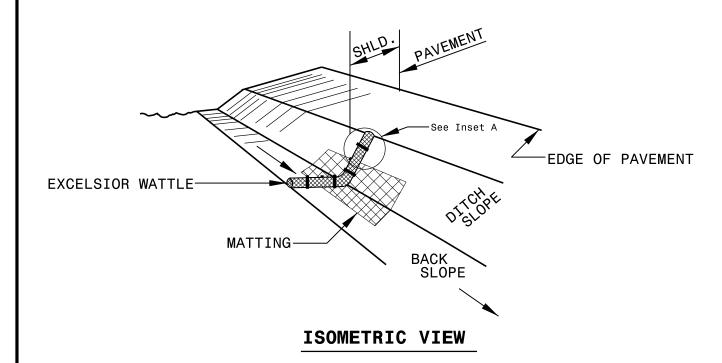
SOIL STABILIZATION TIMEFRAMES

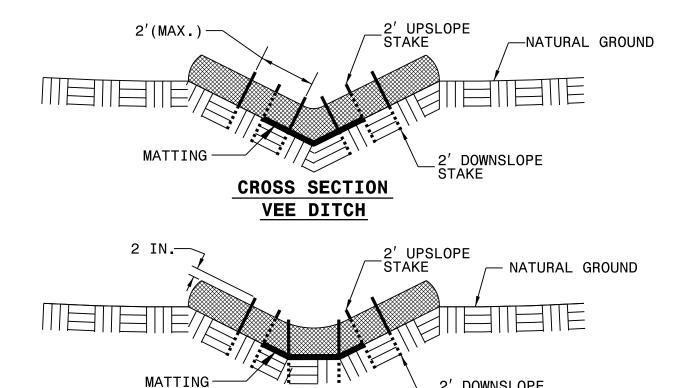
| SITE DESCRIPTION | STABILIZATION TIME | TIMEFRAME EXCEPTIONS |
|--|--------------------|--|
| PERIMETER DIKES, SWALES, DITCHES AND SLOPES | 7 DAYS | NONE |
| HIGH QUALITY WATER (HQW) ZONES | 7 DAYS | NONE |
| SLOPES STEEPER THAN 3:1 | 7 DAYS | IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED. |
| SLOPES 3:1 OR FLATTER | 14 DAYS | 7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH. |
| ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1 | 14 DAYS | NONE, EXCEPT FOR PERIMETERS AND HQW ZONES. |

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

PROJECT REFERENCE NO. R-5787CB

WATTLE DETAIL





CROSS SECTION TRAPEZOIDAL DITCH 2' DOWNSLOPE

STAKE

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

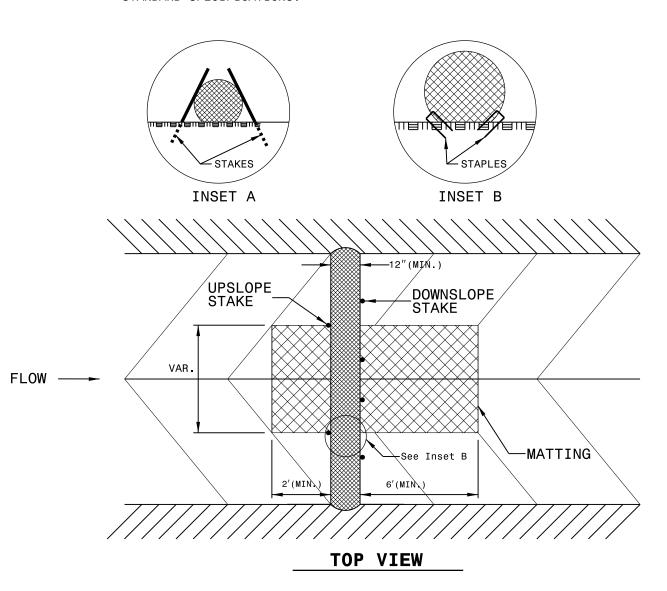
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

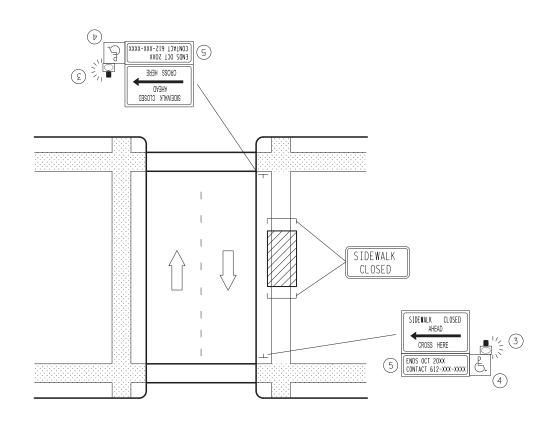
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

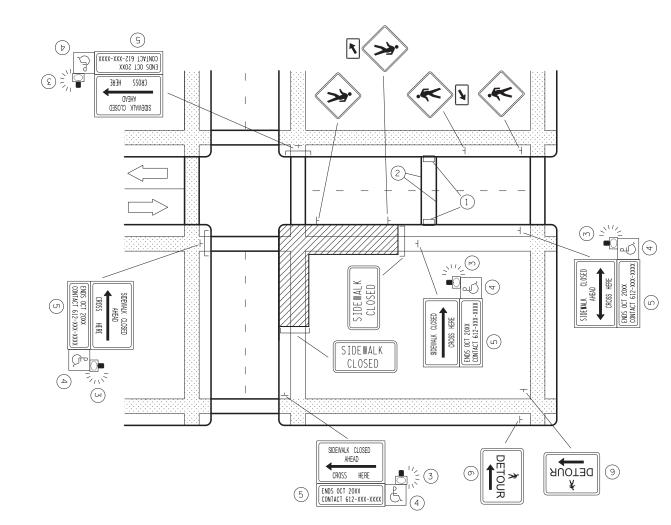
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.





OTHER SIDE OF STREET DETOUR (FOR MID-BLOCK CLOSURE)



OTHER SIDE OF STREET DETOUR OR DETOUR WITH TRAILBLAZING SIGNS (FOR CORNER SIDEWALK CLOSURE WITH OPTIONAL TEMPORARY CROSSWALK)

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECTABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN.
OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC.
STAGE WORK, AS NECESSARY, TO PROVIDE AN ALTERNATE PEDESTRIAN
ROUTE (APR) AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE detours,
MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE APR. PROVIDE A FIRM, STABLE, AND SLIP RESISTANT TEMPORARY WALKWAY SURFACE TO COVER SHORT SEGMENTS OF ROUGH, SOFT, OR UNEVEN GROUND.

THE PEDESTRIAN TRAFFIC SIGNALS CONTROLLING CLOSED CROSSWALKS SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

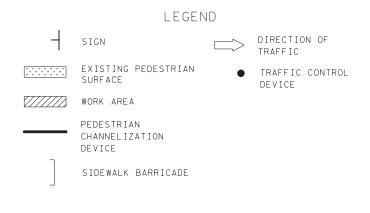
WHEN A SIGN OR BARRICADE IS ORIENTED SUCH THAT VISIBILITY TO TRAFFIC (BIKES, PEDESTRIANS) IS REDUCED ENOUGH TO CAUSE HAZARD, DELINEATE THE SIGN/BARRICADE WITH APPROPRIATE DEVICES.

MINIMIZE DISRUPTION TO PEDESTRIANS TO THE MAXIMUM EXTENT FEASIBLE BY PROVIDING AN APR IN THE FOLLOWING ORDER OF PREFERENCE:

- 1. PROVIDE THE APR ON THE SAME SIDE OF THE STREET AS THE DISRUPTED ROUTE UTILIZING BYPASSES.
- 2. WHERE IT IS NOT FEASIBLE TO PROVIDE A SAME SIDE APR, PROVIDE A DETOUR ON THE OTHER SIDE OF THE STREET.
- 3. WHERE IT IS NOT FEASIBLE TO PROVIDE AN APR ON THE OTHER SIDE OF THE ROADWAY, PROVIDE AN APR DETOUR WITH TRAILBLAZING SIGNS.

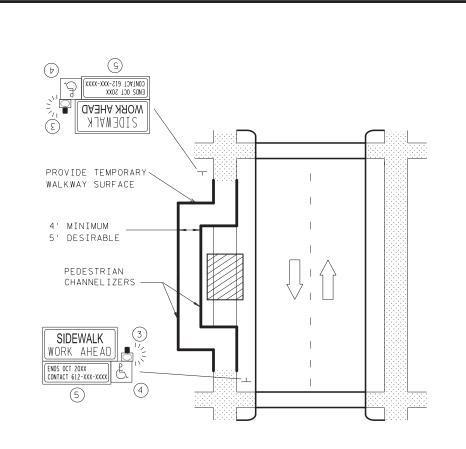
SPECIFIC NOTES

- (1) TEMPORARY CURB RAMPS WITH DETECTABLE WARNINGS.
- (2) TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.
- 3 AN APPROVED AUDIBLE MESSAGE DEVICE OR TACTILE MESSAGE SHOULD BE PROVIDED FOR SIGHT-IMPAIRED PEDESTRIANS.
- THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHOULD BE DISPLAYED WHEN ANY WALKWAY THROUGH A WORK ZONE HAS BEEN DETERMINED TO BE TPAR COMPLIANT. THE SYMBOL OF ACCESSIBILITY SHALL NOT BE DISPLAYED IF PERSONS WITH DISABILITIES SHOULD NOT USE THE PRIMARY TEMPORARY PEDESTRIAN DETOUR. THE REASON FOR THE NON-COMPLIANCE SHOULD BE POSTED AND AN ALTERNATE ROUTE SHOULD BE POSTED WHEN THE PRIMARY TEMPORARY PEDESTRIAN DETOUR IS NON-COMPLIANT TO TPAR STANDARDS.
- (5) TYPICAL SIGN MESSAGE FOR A TEMPORARY PEDESTRIAN DETOUR SHOULD INCLUDE INFORMATION SUCH AS THE DURATION OF THE WALKWAY RESTRICTIONS (BEGINNING AND/OR END DATES) AND A PROJECT CONTACT NUMBER FOR 24 / 7 QUESTIONS OR REPORTING HAZARDS.
- 6 PEDESTRIAN DETOUR TRAILBLAZING SIGNS SHOULD BE USED IF THE PEDESTRIAN DETOUR IS LOCATED SOMEPLACE OTHER THAN ACROSS THE STREET FROM THE SIDEWALK CLOSURE.



TRAFFIC CONTROL
ALTERNATE PEDESTRIAN ROUTE (APR) DETOUR

PUBLISHED BY OTST: 1/6/2016

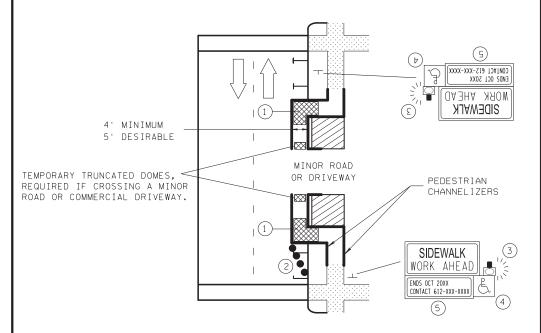


BYPASS ON ADJACENT AVAILABLE RIGHT OF WAY

BYPASS TYPE A

PREFERRED METHOD TO BE USED IN CONJUNCTION WITH 2012 NCDOT STANDAND DRAWINGS

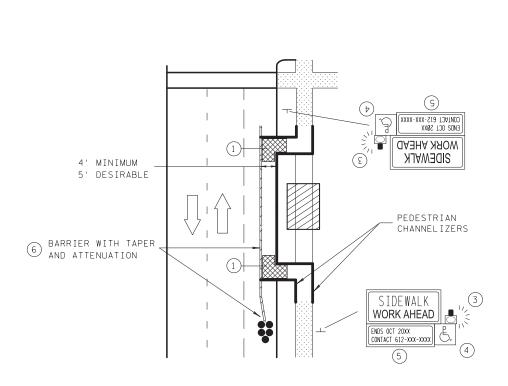
NOTE: MAY ONLY BE USED ON ROADWAY WITH POSTED SPEED OF 45 MPH OR LESS.



BYPASS TYPE B

SIDEWALK BYPASS USING PARKING OR

SHOULDER ON LOW SPEED ROADWAY



SIDEWALK BYPASS USING SHOULDER OR PARKING LANE HIGH SPEED ROADWAY

BYPASS TYPE C

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECTABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN.
OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC.
STAGE WORK, AS NECESSARY, TO PROVIDE AN alternate pedestrian
ROUTE (APR)AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE detours,
MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE APR. PROVIDE A FIRM, STABLE, AND SLIP RESISTANT TEMPORARY WALKWAY SURFACE TO COVER SHORT SEGMENTS OF ROUGH, SOFT, OR UNEVEN GROUND.

THE PEDESTRIAN TRAFFIC SIGNALS CONTROLLING CLOSED CROSSWALKS SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

WHEN A SIGN OR BARRICADE IS ORIENTED SUCH THAT VISIBILITY TO TRAFFIC (BIKES, PEDESTRIANS) IS REDUCED ENOUGH TO CAUSE HAZARD, DELINEATE THE SIGN/BARRICADE WITH APPROPRIATE DEVICES.

MINIMIZE DISRUPTION TO PEDESTRIANS TO THE MAXIMUM EXTENT FEASIBLE BY PROVIDING AN APR IN THE FOLLOWING ORDER OF PREFERENCE:

1. PROVIDE THE APR ON THE SAME SIDE OF THE STREET AS THE DISRUPTED

- ROUTE UTILIZING BYPASSES.
 2. WHERE IT IS NOT FEASIBLE TO PROVIDE A SAME SIDE APR. PROVIDE A
- DETOUR ON THE OTHER SIDE OF THE STREET.
- 3. WHERE IT IS NOT FEASIBLE TO PROVIDE AN APR ON THE OTHER SIDE OF THE ROADWAY, PROVIDE AN APR DETOUR WITH TRAILBLAZING SIGNS.

SPECIFIC NOTES

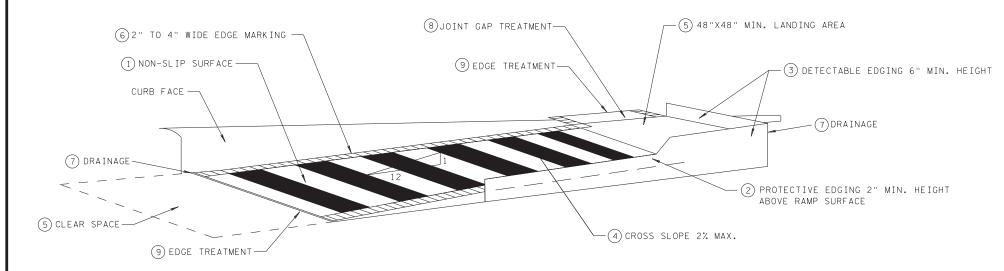
- 1) TEMPORARY CURB RAMPS WITH DETECTABLE WARNINGS.
- 2) 5 DEVICE TAPER 25 FEET LONG, RECOMMENDED WHEN THE CLOSED AREA WAS USED AS AN INTERMITTENT TRAFFIC LANE OR BYPASS LANE. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
- 3 AN APPROVED AUDIBLE MESSAGE DEVICE OR TACTILE MESSAGE SHOULD BE PROVIDED FOR SIGHT-IMPAIRED PEDESTRIANS.
- THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHOULD BE DISPLAYED WHEN ANY WALKWAY THROUGH A WORK ZONE HAS BEEN DETERMINED TO BE TPAR COMPLIANT. THE SYMBOL OF ACCESSIBILITY SHALL NOT BE DISPLAYED IF PERSONS WITH DISABILITIES SHOULD NOT USE THE PRIMARY TEMPORARY PEDESTRIAN DETOUR. THE REASON FOR THE NON-COMPLIANCE SHOULD BE POSTED AND AN ALTERNATE ROUTE SHOULD BE POSTED WHEN THE PRIMARY TEMPORARY PEDESTRIAN DETOUR IS NON-COMPLIANT TO TPAR STANDARDS.
- (5) TYPICAL SIGN MESSAGE FOR A TEMPORARY PEDESTRIAN DETOUR SHOULD INCLUDE INFORMATION SUCH AS THE DURATION OF THE WALKWAY RESTRICTIONS (BEGINNING AND/OR END DATES) AND A PROJECT CONTACT NUMBER FOR 24 / 7 QUESTIONS OR REPORTING HAZARDS.
- (6) SEE MN MUTCD FOR GUIDANCE ON PLACEMENT AND USAGE OF BARRIER.

LEGEND SIGN DIRECTION OF TRAFFIC TRAFFIC TRAFFIC CONTROL DEVICE WORK AREA PEDESTRIAN CHANNELIZATION DEVICE BARRIER

TRAFFIC CONTROL
ALTERNATE PEDESTRIAN ROUTE (APR) BYPASS

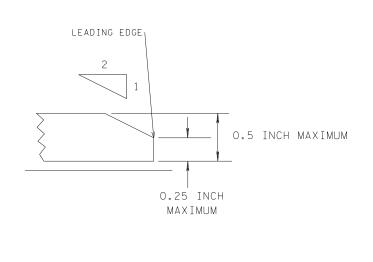
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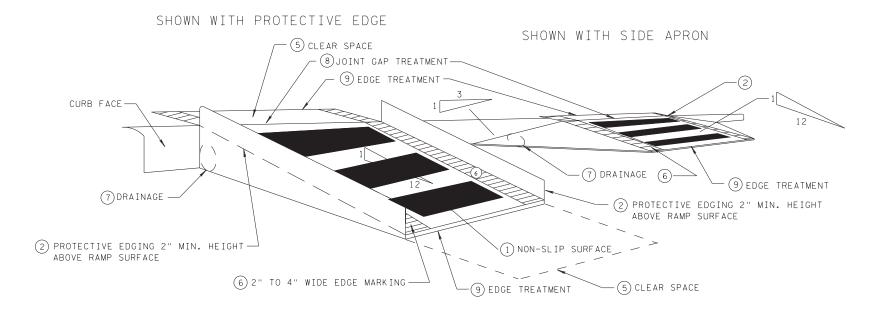
SPECIFIC NOTES

- ① CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.
- PROTECTIVE EDGING WITH A 2 MIN. HEIGHT SHALL BE PLACED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3. PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
- (3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE PLACED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- 4 CURB RAMPS AND LANDINGS SHALL HAVE A 2% MAX. CROSS SLOPE.
- 5 CLEAR SPACE OF 48"X48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
- (6) THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A CONTRASTING COLOR, 2" TO 4" WIDE MARKING. The MARKING IS OPTIONAL WHERE COLOR CONTRASTING EDGING IS USED.
- 7 WATER FLOW IN THE GUTTER SYSTEM SHALL NOT BE IMPEDED.
- (8) LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.

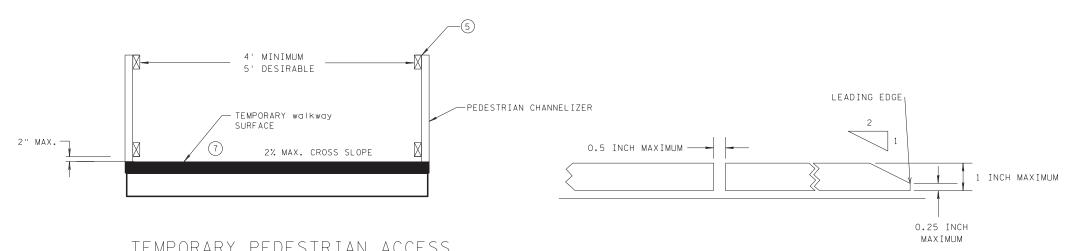


TEMPORARY CURB RAMP PARALLEL TO CURB

(9) EDGE TREATMENT

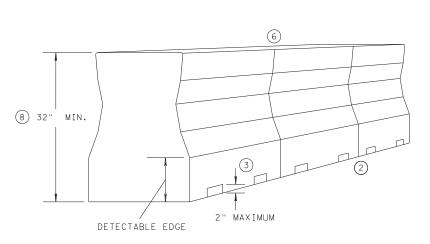


TEMPORARY CURB RAMP PERPENDICULAR TO CURB

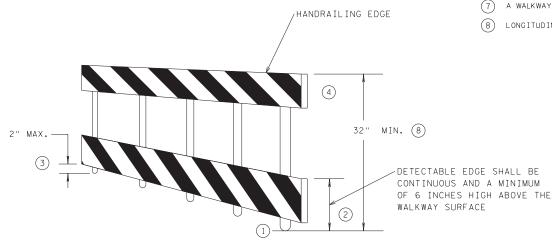


TEMPORARY PEDESTRIAN ACCESS

TEMPORARY WALKWAY SURFACE



PEDESTRIAN CHANNELIZER USING A BARRIER (MINIMUM REQUIREMENTS)



PEDESTRIAN CHANNELIZER (MINIMUM REQUIREMENTS)

GENERAL NOTES

RAILINGS OR OTHER OBJECTS MAY PROTRUDE A MAXIMUM OF 4 INCHES INTO THE WALKWAY CLEAR SPACE WHEN LOCATED A MINIMUM OF 27 INCHES ABOVE THE WALKWAY SURFACE.

ANY PEDESTRIAN DEVICES USED TO PROVIDE POSITIVE PROTECTION FOR PEDESTRIANS OR WORKERS SHALL MEET CRASHWORTHY REQUIREMENTS APPROPRIATE FOR THE BARRIERS APPLICATION.

BARRICADES SHALL BE PLACED ACROSS THE ENTIRE WIDTH OF THE WALKWAY SURFACE.

SPECIFIC NOTES

- ANY TRIPPING HAZARD IN THE WALKWAY NEEDS A DETECTABLE EDGE. BALLAST SHALL BE LOCATED BEHIND OR INTERNAL TO THE DEVICE. ANY SUPPORT ON THE FRONT OF THE DEVICE SHALL NOT EXTEND INTO THE 48 INCH MINIMUM WALKWAY CLEAR SPACE AND SHALL NOT EXCEED 0.5 INCHES IN HEIGHT ABOVE THE WALKWAY SURFACE.
- 2 DETECTABLE EDGES SHALL BE CONTINUOUS AND 6 INCHES MIN. HIGH ABOVE WALKWAY SURFACE AND HAVE COLOR MARKINGS CONTRASTING WITH THE WALKWAY SURFACE.
- DEVICES SHALL NOT BLOCK WATER DRAINAGE FROM THE WALKWAY. A GAP HEIGHT OR OPENING FROM THE WALKWAY SURFACE UP TO A MAXIMUM OF 2 INCHES IS ALLOWED FOR DRAINAGE PURPOSES.
- 4 WHEN HAND GUIDANCE IS REQUIRED, THE TOP RAIL OR TOP SURFACE SHALL:

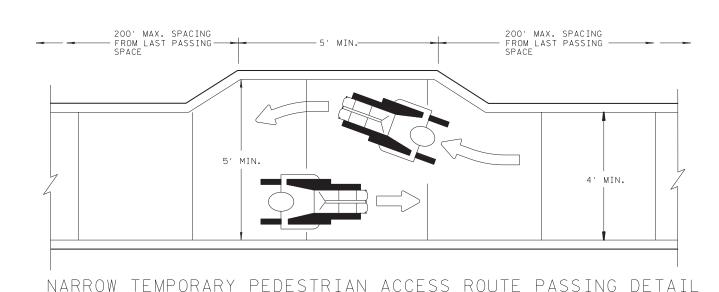
 BE IN A VERTICAL PLANE PERPENDICULAR TO THE WALKWAY ABOVE THE DETECTABLE EDGE,

 BE CONTINUOUS AT A HEIGHT OF 34 TO 38 INCHES ABOVE THE WALKWAY SURFACE, AND
- BE SUPPORTED WITH MINIMAL INTERFERENCE TO THE PEDESTRIAN'S HANDS OR FINGERS.
- ALL DEVICES SHALL BE FREE OF SHARP OR ROUGH EDGES, AND FASTENERS (BOLTS) SHALL BE ROUNDED TO PREVENT HARM TO HANDS, ARMS OR CLOTHING OF PEDESTRIANS.
- (6) ALL DEVICES USED TO CHANNELIZE PEDESTRIAN FLOW SHOULD INTERLOCK SUCH THAT GAPS DO NOT ALLOW PEDESTRIANS TO STRAY FROM THE CHANNELIZED PATH.
- A WALKWAY SURFACE SHALL BE FIRM, STABLE, AND SLIP RESISTANT.
- (8) LONGITUDINAL CHANNELIZING DEVICES FOR PEDESTRIANS SHALL BE 32 INCHES HIGH OR GREATER.

SIDEWALK **CLOSED** 34" MIN. 2" MAX. — (3) SIDEWALK BARRICADE

TYPICAL AUDIBLE MESSAGE

DEVICE LOCATION WHEN USED



TPAR - WALKWAY DEVICES